



EXPRESS MAIL NO: EL755733455US

#8

1

SEQUENCE LISTING

<110> Mulligan, John T.
Tabone, John C.

<120> METHODS FOR IMPROVING THE SEQUENCE
FIDELITY OF SYNTHETIC DOUBLE-STRANDED OLIGONUCLEOTIDES

<130> 340078.401

<140> 09/872,761
<141> 2001-06-01

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<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 205
<212> DNA
<213> Artificial Sequence

<220>
<223> 205 base pair segment of the lacI gene sequence
synthesized using overlapping double-stranded
oligonucleotides

<400> 1
aattcataaa ggagatatac tatgaaacccg gtaacgttat acgacgtcgc tgaatacgcc 60
ggcgtttctt accagaccgt ttcttagatgt gttaaccagg cttcacatgt tagcgctaaa 120
acccgggaaa aagttaagc tgccatggct gagctcaact acatcccgaa ccgtgttgcg 180
cagcagctgg ctggtaaaca aagct 205

<210> 2
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base
<222> (11)...(11)
<223> n = 2,6-diaminopurine

<400> 2
accgtttcta nagtggtaa ccagg

25

<210> 3
<211> 25
<212> DNA

<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base
<222> (13)...(13)
<223> n = 2,6-diaminopurine

<400> 3
accgtttcta gantggtaa ccagg 25

<210> 4
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base
<222> (8)...(8)
<223> n = 2,6-diaminopurine

<400> 4
gaaaaaaantt gaagctgcca tggct 25

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Modified oligonucleotides containing 2,6
diaminopurine

<221> modified_base
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<223> n = 2,6-diaminopurine

<400> 5
ttncgcagca gctggctggtaa 26
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<210> 6
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Modified nucleotides containing uracil.

<400> 6

tgaaggctgg ttaaccactu tagaa 25
<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified nucleotides containing uracil.

<400> 7
agctcagcca tggcagcttc aau tt 25
<210> 8
<211> 25
<212> DNA
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<220>
<223> Modified nucleotides in which uracil was
substituted for adenosine.

<400> 8
agctcagcca tggcagcttc auctt 25
<210> 9
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified nucleotides in which uracil was
substituted for adenosine.

<400> 9
ttgcgcugca gctggctgg aaacaa 26
<210> 10
<211> 197
<212> DNA
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<220>
<223> Fragment of the lacI gene sequence.

<400> 10
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tttcttacca gaccgttct agagtggta accaggcttc acatgttagc gctaaaaccc 120
ggaaaaaaagt tgaagctgcc atggctgagc tcaactacat cccgaaccgt gttgcgcagc 180
agctggctgg taaacaa 197

<210> 11
<211> 48
<212> DNA

<213> Artificial Sequence

<220>

<223> Control synthetic 48 bp sequence

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48

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

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45

<210> 13

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> 48mer containing synthesis byproducts

<400> 13

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49

<210> 14

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

<400> 14

attcgccctt tgccactaag caccagcgaa acggtaacttg ccgacacg

48

<210> 15

<211> 48

<212> DNA

<213> Artificial Sequence

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<223> 48mer containing synthesis byproducts

<400> 15

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48